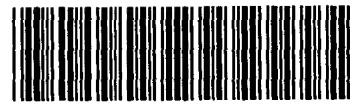


#27

Re-run

K. Kerr



RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/478,188D

DATE: 04/24/2003
TIME: 17:19:34

Input Set : N:\paola\US09478188D.raw.txt
Output Set: N:\CRF4\04242003\I478188D.raw

1 <110> APPLICANT: SHEN, BEN
 2 LIU, WEN
 3 CHRISTENSON, STEVEN
 4 STANDAGE, SCOTT
 5 <120> TITLE OF INVENTION: GENE CLUSTER FOR PRODUCTION OF THE ENEDIYNE ANTITUMOR
 ANTIBIOTIC C-1027
 6 <130> FILE REFERENCE: 407T-896010US
 C--> 7 <140> CURRENT APPLICATION NUMBER: US/09/478,188D
 8 <141> CURRENT FILING DATE: 2000-01-05
 9 <150> PRIOR APPLICATION NUMBER: US 60/115,434
 10 <151> PRIOR FILING DATE: 1999-01-05
 11 <160> NUMBER OF SEQ ID NOS: 2
 12 <170> SOFTWARE: PatentIn version 3.0
 14 <210> SEQ ID NO: 1
 15 <211> LENGTH: 42000
 16 <212> TYPE: DNA
 17 <213> ORGANISM: Artificial
 18 <220> FEATURE:
 19 <223> OTHER INFORMATION: cDNA
 20 <220> FEATURE:
 21 <221> NAME/KEY: CDS
 22 <222> LOCATION: (11)..(658)
 23 <400> SEQUENCE: 1
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 25 Glu Asp Pro Gly Cys Gly Val Gly Val Thr Asp Glu Gly
 26 1 5 10
 27 ggg gtg ccc ggc gac gcc tgc ggc gaa ggg cgg ttc ctt gag ttc gag 97
 28 Gly Val Pro Gly Asp Ala Cys Gly Glu Gly Arg Phe Leu Glu Phe Glu
 29 15 20 25
 30 gcc ggt ggc gag gac gac gtg gtc cgc gtc gag gat ctg cgt gtc ggg 145
 31 Ala Gly Gly Glu Asp Asp Val Val Arg Val Glu Asp Leu Arg Val Gly
 32 30 35 40 45
 33 gag cgg ccc agg gcg cag ccc ctc ggt cag gta cgg ggt gag gcc cct 193
 34 Glu Arg Pro Arg Ala Gln Pro Leu Gly Gln Val Arg Gly Glu Ala Pro
 35 50 55 60
 36 gac ggt cac ctc gaa gca gcg gtc gtg gga cgg ggc gtc gag cgc ctc 241
 37 Asp Gly His Leu Glu Ala Ala Val Val Gly Pro Gly Val Glu Arg Leu
 38 65 70 75
 39 ccc gtc cgc ttc cac aag gac gac gcc ggg aca gga ctc ccg tgc ggc 289
 40 Pro Val Arg Phe His Lys Asp Asp Ala Gly Thr Gly Leu Pro Cys Gly
 41 80 85 90
 42 ctc gac cag tcg ggc gtc gag gta gtc ctg gaa gat gcg gcg ggg ggc 337
 43 Leu Asp Gln Ser Gly Val Glu Val Leu Glu Asp Ala Ala Gly Gly
 44 95 100 105

ENTERED

RAW SEQUENCE LISTING

DATE: 04/24/2003

PATENT APPLICATION: US/09/478,188D

TIME: 17:19:34

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 Output Set: N:\CRF4\04242003\I478188D.raw

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47	110 115 120 125	
48	gcg ccg gtc ggc ctc ctg gtt ggc cca gtt gat gaa gtc gag cac gtc	433
49	Ala Pro Val Gly Leu Leu Val Gly Pro Val Asp Glu Val Glu His Val	
50	130 135 140	
51	ctc gcg gaa cac cga cat cct gcc ggc ctg gat att gaa gac gtg gtc	481
52	Leu Ala Glu His Arg His Pro Ala Gly Leu Asp Ile Glu Asp Val Val	
53	145 150 155	
54	cca ggg gtt gcc gtc acg gtg ata ggc gac gcc ggc cga gcg gta ggc	529
55	Pro Gly Val Ala Val Thr Val Ile Gly Asp Ala Gly Arg Ala Val Gly	
56	160 165 170	
57	ggc gcg ccg ctc cag gag gac gac ttc cag cgg tct tct cgc gaa atg	577
58	Gly Ala Pro Leu Gln Glu Asp Asp Phe Gln Arg Ser Ser Arg Glu Met	
59	175 180 185	
60	aag cag gcg tat cgc ggt cgc cgt gcc tgc cag gcc cgc ccc tac gac	625
61	Lys Gln Ala Tyr Arg Gly Arg Arg Ala Cys Gln Ala Arg Pro Tyr Asp	
62	190 195 200 205	
63	cag cac cct ggg gcg cgc acc cgt cat gcc cat gaaggctccc ccgctgactc	678
64	Gln His Pro Gly Ala Arg Thr Arg His Ala His	
65	210 215	
66	agggcggcgc gtcgcgcgtc cccgtcggtg tcctcgctga ctggaagttc cctgacctgg	738
67	cgtcaactcc actgatccgt aaggggatcg cgggagtgga tacgggtcag gtcgtgcacg	798
68	atcgtggcac cagacagatc accacgtcga taggcactcg ttagccgcgc ccggggctcg	858
69	acggggcggg gcaccggcag gggccgcgc gtgatcagcc ggagcctgtc cggggggcgtg	918
70	cgtgcggggc gtcagctgtc gatgtcggtt acgccaggaa cgtcgatctc ggtgcggcgc	978
71	tagtgggtga agtagttgtgt gtagagggttc acggccacgt ggacgaagac ctggcgagc	1038
72	tcgggtgtccg tccatccctg tgccacggcc gcgttccacg aggctgtcaga cgccctcgccc	1098
73	acttgcggcg cgtatccctt ggccacctgg accagtgttt cgagcttac gtcgtcgccg	1158
74	ggcgtcccccc ggcgaatcgc cacggcttcc tccagcgtga aacccgcac ctgcggcac	1218
75	accgtgtcgc ccgcctggca gtacgcgcac gcgtcgaccg cgcacccgc gaggggcgtc	1278
76	gcctcgctg tgccggcgtc gaacgttcca tggatggcga cggctccggat gatcgccgc	1338
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78	aaccgttctt ccagtcggcg caggatgtt cccggcgtc cgggtgcggat gtcgtatgt	1458
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82	agggggcggagg tcagaggccg agcacccctt cggccaggaa ggtggcccgaa acacggccct	1698
83	cgtatccggc gaaggccagg tcgcgtgtgg tggaggtgtc gtcggcgaac ggggagaagc	1758
84	cgcagtcgtc gcagggttccc agttgtcgtc cggggatgtc gccggccggcg agcaggatgc	1818
85	ggtcgcgtac ctgctcggtt gtcgtcgat cgggtcggtc accccggagga	1878
86	agacgcgggc ggcaggggc aggtggtac ggcacgtgtc caggaccgc tcggggtccg	1938
87	cttcgcggc cagttcgaga tagaagggtc cccgccttgcgat ctggaagagc ttggggcagca	1998
88	gttcggcgta gtcgtatgtc aggtgtgtc tggagttccgt gtcgtcccg gggcagggtgt	2058
89	gtacgcgtat gggccgggtt tcctcgccgc tgaagcgtcc caggacttgc ttgtttaggg	2118
90	cgtatgtcgtc gtcgaggacg cccgcgttgg ggtcgagctt gaggacacgc cgcacccctcg	2178
91	tgaagtcgtc gtgaccacgc tggatccccc cgtccaggca gcctcgat gtcgtatgt	2238
92	cctcgccgc gaggtcgccgc aggaactgtc cgcggggta gcctcgat ggtgtgcgg	2298
93	ggttagaggag gtcgaggcgc gagggtgcga tgaccgcctg ctgcgtatgt	2358

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/478,188D

DATE: 04/24/2003

TIME: 17:19:34

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 Output Set: N:\CRF4\04242003\I478188D.raw

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96	agagggtgtc	gaggccgtc	acggggtagg	tggcgaagct	cggcttggac	tgttcaccgt	2538
97	ccacgaggac	ggggctgccg	actcggtcca	gtcggtcag	ggtgtccgcg	acggcctgtt	2598
98	cctgtcttt	ggccagggtcc	gtggcgtcca	gggttccctg	ggcatgcgcg	gcaaggccgt	2658
99	gcaggagtgt	cgcggagcgc	ggaaggctgc	cgatcggtc	agtggcgatg	gtcatggccg	2718
100	aagagttaggg	aagaggctgg	gttcaacc	accgaaagc	tttgattgcc	gtcttttcag	2778
101	gggaagttga	tgcgaagtgc	ccgagccgcg	gaacgtgc	atgtatgggg	ggcgggagga	2838
102	gcctcgccgg	ttcttagagc	cggtcgcgc	cacgggtggag	gaggtgc	gctgggagcg	2898
103	gggggtcttt	tcgcccacgc	ggttgggctc	gatggtgcgg	gggtcgcacgg	cctctccggg	2958
104	ggcaccttgc	cggtagacgc	cttcggggtc	ggagtcccg	tcatggggga	gcaggaagaa	3018
105	gaccggcgc	cgttacagac	cgctgtccgg	gtccgcctcg	gcgtcgcc	cgagttcgat	3078
106	gtagccgatc	atgcggccgt	cgcgggcgt	gcccgcgtt	ttcttgcgc	ggggggctt	3138
107	gtccaggggc	tggcggacgt	atgtcgatcc	ctcggtatct	tcgagccaca	cgaccttcgc	3198
108	ctcgtaacg	agatcgctgt	cgttcaatgc	cgagctcatg	gccccgaccc	ctccttcgtc	3258
109	ggcgtgcacc	gggtggggaa	gccccgtcg	cgtgatgtgt	gttcgtctgc	ggcgggtggc	3318
110	cgcagtgggt	cggttgcggc	gtgggtccgg	ttctcgcc	aagcacgggc	aggtacgtcc	3378
111	tggggcactc	acatcgtaga	tggggtccgc	ttccgcagg	cagtgcctcc	ggtcggagga	3438
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116	gccccccatg	tggcctcgg	tgttgcgt	tgcgctgg	gcgtgcgg	cccggtcggg	3738
117	gccccgcgt	gtgtcgccgg	tggcgagg	gccccggcc	ccttcgg	gccagtgcag	3798
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122	cgccctcg	aagcggtcg	tggcttgc	ctcgctgcac	acatgagg	ggcggccgt	4098
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126	ggagtagccg	agaaggagg	ggaggaag	gatcatctc	cccc	tcgg	4338
127	gaagggtgt	tcgagggaa	ggtgcagg	gggggttgg	atgtcttgc	gggaggcgt	4398
128	ggtggcgcgg	gagtggaa	cccggttgc	gtcgggctt	cgacatc	cggtggag	4458
129	gtcgaccact	ccgtcagg	tgcacagg	gtaggggt	ccgtcgagg	tgtcgggatc	4518
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133	ccgttccac	cggtagg	cccaggagg	ccagccagg	ccctccac	gccggaa	4758
134	gtcacggtag	agacggac	agacgttgc	gttgcagg	tcggcagg	tggcggaa	4818
135	ctcgccgc	tcccaggcgg	tgcggcgc	ggggcctc	ggagcgg	ggacagg	4878
136	gagcggcg	ggggccgg	tgtttcg	ggccagg	tgcgtgac	cgccagg	4938
137	gtcaaagg	ggggcctcg	cgctgtc	catggac	cttcgagat	gagcgg	4998
138	gcccccccg	ctgcgg	ggcatgaat	atttcccg	tgcggac	gtccagg	5058
139	cagcgcatgt	gccccgg	aacggccgt	ttcgac	ggccggcc	cgggggaa	5118
140	cagggccgg	caaccgg	gccccgg	gtgagc	gacag	cccgg	5178
141	ggggaaagg	tgcgttctc	gtggggcgg	acgttgcgtt	cctcg	cagcttgc	5238
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/478,188D

DATE: 04/24/2003
TIME: 17:19:34

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Output Set: N:\CRF4\04242003\I478188D.raw

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145	ccggatcgcg	gcagggaccc	aaggggccgg	tgcggccggc	ggtcggtaag	gggccccgg	5478
146	ggagggactg	agggtctgta	tggagcgata	agagggtctg	aaggggcgg	gagagttcg	5538
147	gtccctgcgt	tgagtcctg	gtcatcaccg	caggtcagag	gggttttgg	gggtgaaaaa	5598
148	gggactgaag	ggactcaact	tcccccattat	gagctgagta	gaagaaaagca	gtatgacgat	5658
149	atcggcgcct	acatacgcgc	gcgtacatag	tgagcttata	atgcggaaagt	tgagtcctt	5718
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151	gggaccgaag	agggaccaag	tccctgcgcg	gggcgggcga	cggtaatcg	gcagtgcgg	5838
152	ctccccctt	tcccacagcg	agtcgtcgat	cccctgttag	gccggagagg	gtcctagaac	5898
153	ccctcagggg	ccgttctgt	gccctctggg	cctcctcctg	gccatttacc	ccatggggc	5958
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157	agcagccgca	ggaagagcgg	atcgctctgg	acgtatgg	ggcgaactac	cggtttccca	6198
158	ctatgacgg	gcgtgacttc	ctcgctccgc	tgcgcagcg	ggcggcggag	ttcgagcgc	6258
159	cccacccccc	ataccgggtc	gacatcaacg	gccacgactt	ctggaccatc	cccgagaagg	6318
160	tggcgcgc	caccgcggag	ggcaggcctc	cgcacatagc	gggtactac	gccaccgaca	6378
161	gccagttg	gcgggacgcg	cgcaggcccg	acgggaagcc	ggtcttcacc	tcggggagg	6438
162	ccgcgttgc	cgccggacg	gagatactgg	gacaccgg	ggtgtggag	gacctcgacc	6498
163	ccgtgggtgc	cgactcctac	tcgttccggg	gcgagggt	gtcgctccg	ctcacgg	6558
164	ccaccatg	ctgctacg	aactcctccc	tcctcgcgc	cgccgggtt	ccggagttgc	6618
165	cccgtac	ggatgagg	tcgacgcct	gccaggcgt	ggccagcgtc	gacggggggc	6678
166	ccggta	aatcacctgg	gccaacgc	gctgggttt	ccagcaggcc	gtcgccttc	6738
167	agaacgggt	gctgaccat	caggacaac	gccgctccgg	ctccgcac	acgggtggac	6798
168	tcacatcg	cgagatgt	gactgggtcc	gctgggtgg	gcacccat	gagcgcggcc	6858
169	attacctc	cacggcggg	ccctcgact	ggggcggg	ttcgcagg	ttcgccagc	6918
170	agaagg	attcaccttc	gactcg	aggccccc	ggaactc	caggccgt	6978
171	cacaggcc	tttcgagg	gcccgttcc	cg	gaacgc	gccccgg	7038
172	cgggccag	cg	gactcc	ggctggcc	ggactc	gagaccac	7098
173	aggacgg	gctcg	tcc	ggact	gg	ggactcgac	7158
174	accgcac	cg	acc	gg	cc	ggactggc	7218
175	gctgg	cc	cc	gg	cc	ggactgt	7278
176	gg	cc	cc	gg	cc	ggactgt	7338
177	cc	cc	cc	gg	cc	ggactgt	7398
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183	cc	cc	cc	gg	cc	ggactgt	7758
184	gg	cc	cc	gg	cc	ggactgt	7818
185	gt	cc	cc	gg	cc	ggactgt	7878
186	gg	cc	cc	gg	cc	ggactgt	7938
187	gag	cc	cc	gg	cc	ggactgt	7998
188	ga	cc	cc	gg	cc	ggactgt	8058
189	aa	cc	cc	gg	cc	ggactgt	8118
190	gg	cc	cc	gg	cc	ggactgt	8178
191	gc	cc	cc	gg	cc	ggactgt	8238

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/478,188D

DATE: 04/24/2003

TIME: 17:19:34

Input Set : N:\paola\US09478188D.raw.txt

Output Set: N:\CRF4\04242003\I478188D.raw

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194	gatcaggctg	ctcttgcgg	aaccgcac	ccggtcacc	gcggtcagca	caccgggtgg	8418
195	cacggccacg	gagacctgt	tcaagggtgt	gagatccgcg	ttctccacgg	tcaagtcccc	8478
196	cgtgggcggg	cggactcct	cttcacgcg	ggccccccgc	cgcagagct	ccccgggtccg	8538
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198	tcccgcggcc	ggaccgacat	cgacgatgt	gtcgccgatc	tgcgcacat	cggggtcgtg	8658
199	ctcgacgacc	agcacgggt	tcccttgc	gcccacgcg	cgcagcagg	cggtgagccg	8718
200	ccccacgtcg	cgggggtgca	ggccgatgt	gggctcg	aagatgtac	tgagcccg	8778
201	cagaccactg	ccgaggtggc	gcaccatctt	cagccgctgc	ccctcgcccc	ccgagagg	8838
202	ggccgtgggc	ctgtcaggg	tcaaggtagcc	gagccgatg	gacacgatcc	gtccagg	8898
203	cgtgcgcgcg	gtttcgcga	gaggggcagc	ggccgcgtcc	gtgacgccc	cgagcac	8958
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206	gaaacgttcg	atgac	ctcggtgt	gtca	ctgagg	gttgg	9138
207	gagccgtcg	aaccgtcg	ccaaccctc	gtat	ttcg	tgcttgg	9198
208	cttcagcg	accttccgc	cggtgcgc	cagc	tc	ccgtgt	9258
209	ctcggcgatc	ggcttggccg	gatccagac	gccggactt	gccc	ccat	9318
210	gtacccacc	ttgtactcg	gaaaaggac	cgcccgtc	tccagg	tcgagcg	9378
211	cac	catcttgc	tccaggtcg	gggcgat	ctggcc	ccgtcg	9438
212	gccc	ctgggg	tcgttgaac	agaacgc	gacgc	gaggac	9498
213	cgtcg	cccg	aaccgtcg	acagg	gatc	gtgt	9558
214	caccgtggac	cggcg	ccccacgg	cttctgg	acgat	cccg	9618
215	gttctcgatc	gcctcg	gaggacgtt	gtact	ccg	gttgc	9678
216	gt	gaagg	gttca	gtcg	ctcc	ccgt	9738
217	cgacttgc	gaacc	cccccgt	gatc	atc	gttgc	9798
218	ggagacatct	ttgaggt	gatccgc	gccc	ccgt	ccgt	9858
219	ggatgtttt	cccg	cccg	cggt	gtgac	ccgt	9918
220	tccgtacatg	attaccgt	tca	gccc	aaac	ccgt	9978
221	tactcagg	gtgt	ccgg	tcttc	ccgt	gttgc	10038
222	cagg	ccgc	tccgtt	cc	cgat	ccgc	10098
223	gagaacgatc	cgg	ctcg	ccc	acgc	ccgt	10158
224	ggc	gacc	atcg	tga	agg	ccgt	10218
225	cagg	cgatc	acc	atc	ccg	ccgt	10278
226	ctcg	atcc	ca	tcc	cc	ccgt	10338
227	agtggccacc	aa	cac	cc	cg	ccgt	10398
228	cagg	ccat	cga	act	cc	ccat	10458
229	cgtgc	cc	gg	gt	cc	ccgt	10518
230	gaac	cccc	aa	cc	cc	ccgt	10578
231	cac	gg	cc	cc	cc	ccgt	10638
232	cc	ct	at	cc	cc	ccgt	10698
233	cat	gt	agg	cc	cc	ccgt	10758
234	gag	cc	cc	cc	cc	ccgt	10818
235	gttgc	gt	ca	cc	cc	ccgt	10878
236	acac	atcg	ac	cc	cc	ccgt	10938
237	cgagg	cc	cc	cc	cc	ccgt	10998
238	cagg	ct	cc	cc	cc	ccgt	11058
239	ac	cc	cc	cc	cc	ccgt	11118
240	ct	cc	cc	cc	cc	ccgt	11178

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 04/24/2003
PATENT APPLICATION: US/09/478,188D TIME: 17:19:35

Input Set : N:\paola\US09478188D.raw.txt
Output Set: N:\CRF4\04242003\I478188D.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 5

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/478,188D

DATE: 04/24/2003

TIME: 17:19:35

Input Set : N:\paola\US09478188D.raw.txt
Output Set: N:\CRF4\04242003\I478188D.raw

L:7 M:270 C: Current Application Number differs, Wrong Format